Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

No.2Nd & Final Bill SBR No. 19/19-20 DATED 13-6-19

EE/ELE/Y/BR.No. 19/19-20

Date..... 2010

Dt. 13-6-19

Division: **Electricals (Yelahanka)** Sub-Division: **Electricals**

Bill Received No. Dated Divisional / Sub Divisional Cash Book Voucher No..... Dated.....

Job Code :-005-19-000005

Schedule Docket No. Head of Account : P – 2583 D.R.No.

Name of Work. Sub Estimate for Providing Electrification and fixtures to Newly Built Day-Nalm Project Ashraya Yojana building at Deffence Layout in Ward No 05 byatrayanapura sub Division.

Name of Contractor and Full Address:- M/s Technical Manager KRIDL BBMP Bengaluru..

Reference to Agreement No: EE/Ele/YZ/SWO/000006/2019-20 Date:- 29/04/2019

Certified that the measurements were taken by me on 4/5/19 and recorded of Pages 256326 to 335 of measurement Book No. 2564/18-19 and that the work is satisfactorily executed.

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 4/5/19 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)
Sub Division Officer

II Memorandum of Payment

		Amount BBMP, Bangalore
1)	Total value of work done or supplies made as per account within	Bill = 128778 =00
2)	Deduct amount to be held in reserve being .....percent Rs.....	— 16531 =00
3)	" Balance	112247 =00
4)	Deduct Payment:	
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... adjusted towards cash advance recovery of	IT 2% 2245 =00
		Cost 1% 1003 =00
		CCost 1% 1003 =00
		LWC 1% 1122 =00
		CBFD 1% 113 =00
		FSD 7.5% 8419 =00
	b) Payments Now made { cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.	deductions = 13905 =00
5)	Balance being unpaid value of work done held in reserve.	98342 =00
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments	Add Become charges + 16531 =00
7)	Net amount due to or from Contractor unadjustments items.	Cheque: 114873 =00
8)	Advance to Contractor for materials brought to site (as detailed) within	
9)	Value of Government materials supplied.	
	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

(For use in the Office)

Witness

1.

2.

Assistant Executive Engineer
Byatarayanapura Sub-Division
KRIDL, BBMP, Bangalore

Signature of Contractor

Dated

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....Initials of Officer making payme

Stamp

ಲೆಕ್ಕಶೀರ್ಷಿಕೆ P2583 Construction

ರೂ. 128778=00 ಮೊತ್ತ ಸ್ವೀಕರಿಸಿದೆ

ರೂ. 114873=00 ನಿವ್ವಳ ಮೊತ್ತಕ್ಕಾಗಿ

ರೂ. 13905=00 ಮುಂಗಡವಾಗಿ ಮಾಡಿದೆ

ಲೆಕ್ಕ ಅಧಿಕ್ಷಕರು

ಕಾ.ಪಾ.ಅ.(ವಿ) ಯಲಹಂಕ ಪಲಯ

Sl no	Description of item	Uni
	Name of the Work:- Providing Electrification and fixtures to Newly Built Day-Nalm Project Ashraya Yojana building at Deffence Layout in Ward No 05 byatrayanapura sub Division.	
1	Concealed Conduit System Supplying heavy gauge PVC conduit pipe .....mm dia .....mm thick confirming to IS 2509 with suitable size bends, metal/PVC junction boxes, adhesive paste etc., and running before concreting the slab. The conduit should be tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fish wire wherever necessary19/20mm dia 2mm thick	R/Mt
2	25mm dia 2mm thick	R/Mt
3	Supplying heavy gauge PVC Conduit Pipe ....dia .....mm thick with suitable size bends, metal junction boxes adhesive paste etc., by groove cutting in the wall and fixing by bracing U or J hooks and cement plastering up to the wall surface and run with 18 SWG GI fish wire run throughout the conduit wherever necessary.19/20mm dia 2mm thick	
4	25mm dia 2mm thick	Mtr
5	Supplying And Fixing Metal Fan Box with Round Hook.	No
6	Supplying and flush mounting powder coated / galvanized metal box suitable for mounting modular switch plates. The box should be firmly flush mounted after due groove cutting in Brick/Stone/C.C wall1-3Way	Each
7	4-5Way	Each
8	6Way	Each
9	Point wiring using Copper wire without switch. Supplying and wiring adopting loop system in existing PVC Conduit / casing capping using 1100V grade, COPPER conductor flexible multistrand FRLS PVC insulated, 2X1.5Sq.mm Cable confirming to the GTP without switch, the other end of the wires shall be terminated with sufficient loose length in a wood/PVC round block complete for each outlet.GROUP BShort point upto 3Mtr from tapping point to out let via switch box	Point
10	Medium point above 3Mtr upto 6Mtr from tapping point to out let via switch box	Point
11	Long point above 6Mtr upto 10Mtr from tapping point to out let via switch box	Point
12	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box.1 to 3 Module	
13	4 Module	Each
14	6 Module	Each
15	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293 GROUP B 6Amps one way.	
16	6Amps Two way.	Each
17	6Amps 3way socket.	Each
18	Stepped Fan Regulator.	Each
19	16Amps one way switch	Each
20	6/16Amps universal socket	Each
21	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B.1.5 sqmm	Mtrs
22	2.5 sqmm	Mtrs.
23	4 sqmm	Mtrs.
24	LED Indoor Supplying of 4' feet - LED PVC Square Batten ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 4' - 28 watts	Nos
25	Supplying exhaust fan of 1440 RPM of 300mm (12") size with bracket blades complete for light duty suitable to operate on 230V 50Hz, AC Supply.	Nos
26	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. 48" Sweep (1200mm)Regular model	Nos

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate	Amount	Qty	Cost	
		30	43.00	1290.00	30	1290.00	
		51	57.00	2907.00	51	2907.00	
		25	56.00	1400.00	25	1400.00	
		33	58.00	1914.00	33	1914.00	
		12	92.00	1104.00	12	1104.00	
		3	91.00	273.00	3	273.00	
		5	98.00	490.00	5	490.00	
		4	121.00	484.00	4	484.00	
		9	130.00	1170.00	9	1170.00	
		10	190.00	1900.00	10	1900.00	
		10	291.00	2910.00	10	2910.00	
		3	109.00	327.00	3	327.00	
		5	122.00	610.00	5	610.00	
		4	173.00	692.00	4	692.00	
		28	50	1400.00	28	1400.00	
		4	70.00	280.00	4	280.00	
		5	77.00	385.00	5	385.00	
		12	236.00	2832.00	12	2832.00	
		5	92.00	460.00	5	460.00	
		5	120.00	600.00	5	600.00	
		118	15.90	1876.20	118	1876.20	
		246	24.90	6125.40	246	6125.40	
		195	36.30	7078.50	195	7078.50	
		6	1774.00	10644.00	6	10644.00	
		2	1700.00	3400.00	2	3400.00	
		8	1900.00	15200.00	8	15200.00	

27	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG	Sqcm
28	Supplying and fixing regular MCB distribution boards on wall / wood board / flush mounting using required clamps, bolts, nuts etc., with provision for fixing suitable type capacity MCB's single phase / 3 phase / single door with powder coated painting. Made out of 14 SWG MS enclosure.II - Double Door4Way SP &N	Nos
29	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.5-32Amps SP	Nos
30	5-32 Amps DP	Nos
31	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers.32Amps	Nos
32	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.3.5 core 25 sqmm	Mtrs
33	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C. cutouts and other equipment's on the meter board using 40mm dia 2.90mm thick GI pipe 2.5 mtr long buried in a pit ... The pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size as per ISI specification 7.3.3. of IS 732 using 12mm dia bolts, nuts, washers and check nuts etc., the pipe shall have 16 through holes of 122 mm dia	No
34	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	Mtrs
35	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm	Mtrs
36	Supplying and fixing L.T. cast Iron pot heads suitable for 1.1 KV class UG cable filled with necessary bitumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc.25Sqmm	Nos
37	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Nos
38	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	Nos
39	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Nos
40	Fixing one exhaust fan in the nitch already left in the wall with bolts and nuts and 5 amps. ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire.	Nos
41	LED Street light Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II.LED Streetlight 65watts	Nos
	Total Rs	
	Add KRIDL Charges 11.0%	
	Bescom charges Rs	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		0.33	5400.00	1782.00	0.33	1782.00	
		1	1067.00	1067.00	1	1067.00	
		6	418.00	2508.00	6	2508.00	
		2	849.00	1698.00	2	1698.00	
		2	45.00	90.00	2	90.00	
		0	165.60	0.00	0	0.00	
		2	2727.00	5454.00	2	5454.00	
		0	78.00	0.00	0	0.00	
		0	345.00	0.00	0	0.00	
		0	362.00	0.00	0	0.00	
		2	176.00	352.00	2	352.00	
		6	98.00	588.00	6	588.00	
		8	139.00	1112.00	8	1112.00	
		0	412.00	0.00	0	0.00	
		1	18720.00	18720.00	1	18720.00	
				101123.10		**101123.10**	
				11123.54		11123.54	
				16531.00		16531.00	
				128777.64		**128777.64**	